



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/553,941	04/21/2000	Richard A. Baker, Jr.	SAA-36	6728

7590 07/15/2003

Larry I Golden
Square D Company
1415 South Roselle Road
Palatine, IL 60067

[REDACTED] EXAMINER

NGUYEN, CHAU T

ART UNIT	PAPER NUMBER
2176	6

DATE MAILED: 07/15/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/553,941	BAKER, JR., RICHARD A.
	Examiner Chau Nguyen	Art Unit 2142

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 07 May 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-5,8,9 and 11-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-5, 8-9, 11-27 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Amendment A, received on 05/07/2003, has been entered. Claims 1-5, 8-9, and 11-27 are presented for examination.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-5, 8-9, 11-18, 20-22, and 24-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Glorikian, U.S. Patent No. 6,343,317, and further in view of Fukui, U.S. Patent No. 6,131,119.

4. As to claims 1, 11, and 21, Glorikian discloses a method of communication in a network communication system, the communications system comprising a plurality of network devices (col. 3, lines 53, col. 4, lines 40: client's appliances 29 and 31 enabled to connect to the Internet through integrated cellular telephone via base stations),

wherein each network device is positioned at a physical location and wherein each network device is adapted to perform a designated function according to the physical location of said each network device, said method comprising the steps of:

identifying the physical location of said each network device using a physical site locator (col. 2, line 9 – col. 3, line 3: determining positions (physical location) of the appliances, and the position-determining system (physical site locator) is a GPS receiver at the appliances determining the position of the appliances on the Earth's surface);

However, Glorikian does not disclose associating the identifying physical location to a network address in the network communications system, so that the network address associated to said each network device can be used in coordinating the designated function of said each network device with the designated function of other network devices in the network communication system.

In the same field of endeavor, Fukui discloses an automatic configuration system maps a device address of each node coupled to a bus structure to a network protocol address corresponding to the physical location of the node (Fukui, Abstract, col. 2, line 43 – col. 3, line 22). Fukui also discloses an automatic configuration system maps a device or media access control (MAC) address of each passenger control unit to the physical location or seat position of the passenger control unit, and each passenger has access to one or more services such as audio and video on demand, video games, gambling, telephone service and information services (coordinating the designated function for each device) (Abstract, col. 3, line 51 – col. 4, line 58). It would have been

obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Glorikian and Fukui to include associating the identifying physical location to a network address in the network communications system, so that the network address associated to said each network device can be used in coordinating the designated function of said each network device with the designated function of other network devices in the network communication system. Fukui suggests that mapping devices to their corresponding physical location will make it easy to complete device specific or user specific billing, easy to block service or types of services to particular devices and easy to personalize service to specific devices and users.

5. As to claim 2, Glorikian and Fukui (Watters-Fukui) disclose wherein the address of the device is a MAC address (Fukui, col. 4, lines 25-40).

6. As to claim 3, Glorikian-Fukui disclose wherein the address of the device is an IP address (Fukui, col. 4, lines 24-58).

7. As to claims 4 and 25, Glorikian-Fukui disclose transmitting from the device the physical location and the address thereof to a controlling station so as to allow the controlling station to associate the physical location to the address for conveying signals to the device (Glorikian, col. 2, lines 38-46, col. 4, line 63 – col. 5, line 11; Fukui, col. 3, line 51 – col. 4, line 58).

Art Unit: 2142

8. As to claims 5, 24, and 27, Glorikian-Fukui disclose wherein the device has an intended function controlled by a software program, said method further comprising the step of loading the software program from the controlling station to the device after the physical location of the device is identified (Fukui, col. 3, line 51 – col. 4, line 24).

9. As to claim 12, Glorikian-Fukui disclose a method of communicating with a plurality of devices in a network communications system wherein each device is positioned at a physical location, said method comprising the step of converting a map of the physical locations of the devices into one or more address tables, each table including a plurality of network addresses for routing messages to the devices (Glorikian, col. 2, lines 9-45; Fukui, col. 2, line 61 – col. 3, line 11).

10. As to claim 13, Glorikian-Fukui disclose wherein a controlling station is used to associate the physical location to the network address of the respective device (Fukui, col. 4, line 59 – col. 5, line 11).

11. As to claims 8-9, and 26, Glorikian-Fukui disclose a method of communicating with a plurality of devices in a network communications system wherein each device is positioned at a physical location, said method comprising the step of converting a map of the physical locations of the devices into one or more address tables, each table including a plurality of network addresses for routing messages to the devices (Fukui, col. 4, lines 41-58: a system manager unit maps each seat CPU, using its MAC

Art Unit: 2142

address, to corresponding IP address, and the IP address is mapped to a seat location or position (physical location), wherein at least one of the devices comprises a programmable logic controller having a network address assigned thereto from said address table (Fukui, col. 4, line 59 – col. 5, line 11), and the physical locations of at least some of the devices are identified by a physical locator (Glorikian, col. 2, lines 9-46; Fukui, col. 5, lines 26-42).

12. As to claim 14, Glorikian-Fukui disclose the network communications system comprising a local area network (LAN) (Fukui, col. 2, lines 49-60).

13. As to claim 15, Glorikian-Fukui disclose the network communications system comprising a wide area network (WAN) (Glorikian, col. 1, line 34 – col. 2, line 65).

14. As to claim 16, Glorikian-Fukui disclose the network communications system comprising a wireless access communications system (Glorikian, col 2, lines 9-21).

15. As to claim 17, Glorikian-Fukui disclose wherein each device has a unique physical location (Fukui, col. 4, lines 41-58).

16. As to claim 18, Glorikian-Fukui disclose wherein a plurality of devices share one of the physical locations (Glorikian, col. 5, lines 26-42).

Art Unit: 2142

17. As to claim 20, Glorikian-Fukui and Scott disclose wherein each device has an IP address and means for transmitting the IP address and the shared physical location in a RARP message to a controlling station in order to establish the address of the device in the network communications system (Scott, col. 1, line 57 – col. 2, line 34).

18. As to claim 22, Glorikian-Fukui disclose wherein the identifying means comprises a GPS site locator (Glorikian, col. 2, lines 22-31).

19. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Glorikian and Fukui as applied to claims 1-5, 8-9, 11-18, 20-22, and 24-27 above, and further in view of Scott, U.S. Patent No. 6,195,706.

20. As to claim 19, Glorikian-Fukui disclose each device has a MAC address (Fukui, col. 4, lines 41-58). However, Glorikian-Fukui do not disclose wherein means for transmitting the MAC address and the shared physical location in a RARP message to a controlling station in order to establish the address of the device in the network communications system. In the same field of endeavor, Scott discloses RARP is well known to those of ordinary skill in the relevant arts, and using RARP mechanism for controlling operation of the network address mechanisms (col. 1, line 57 – col. 2, line 34). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Glorikian-Fukui and Scott to include transmitting the MAC address and the shared physical location in a RARP message to a

Art Unit: 2142

controlling station in order to establish the address of the device in the network communications system, since Scott suggests that using RARP to determine the system IP address.

21. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Glorikian and Fukui as applied to claims 1-5, 8-9, 11-18, 20-22, and 24-27 above, and further in view of Watters et al. (Watters), U.S. Patent No. 6,249,245.

22. As to claim 23, Glorikian-Fukui disclose the limitations as discussed in claims 1-22 above. However, Glorikian-Fukui do not disclose wherein the identifying means comprises a TDOA device. In the same field of endeavor, Watters discloses calculating position using TDOA measurements when the actual time of transmission is not known (col. 4, line 66 – col. 5, line 13). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Glorikian-Fukui and Watters to include a TDOA device to for determining location in a cellular network portion of the system in case GPS satellites are not in clear view of the GPS receiver.

Response to Arguments

23. In the remarks, Applicant argued in the substance that

(A) Prior art does not disclose or suggest that each device has a designated function and the network address identified by the physical location can be used in coordinating the designated function.

As to point (A), Fukui discloses an automatic configuration system maps a device address of each node coupled to a bus structure to a network protocol address corresponding to the physical location of the node (Fukui, Abstract, col. 2, line 43 – col. 3, line 22). Fukui also discloses an automatic configuration system maps a device or media access control (MAC) address of each passenger control unit to the physical location or seat position of the passenger control unit, and each passenger has access to one or more services such as audio and video on demand, video games, gabling, telephone service and information services (coordinating the designated function for each device) (Abstract, col. 3, line 51 – col. 4, line 58).

24. Applicant's arguments and amendments filed on 05/07/2003 have been fully considered but they are not deemed fully persuasive. Please see the above explanation.

Art Unit: 2142

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau Nguyen whose telephone number is (703) 305-4639. The examiner can normally be reached at 8:00 am – 5:00 pm Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Powell can be reached on (703) 305-9703. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3230.

Art Unit: 2142

Any response to this final action should be mailed to:

Box AF

Commissioner of Patents and Trademarks

Washington, D.C. 20131

Or Faxed to:

(703) 746-7239, (for **formal communications**; please mark
“EXPEDITE PROCEDURE”).

Or:

(703) 746-7240 (for **informal or draft communications**, please label
“PROPOSED” or “DRAFT”).

Or:

(703) 746-7238 (for **After Final Communications**).

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Chau Nguyen
Patent Examiner
Art Unit 2142

Mark R. Powell
MARK POWELL
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100